GEOLOGICAL MAP OF THE COAST
BETWEEN
CHARMOUTH AND LYME REGIS, DORSET.
1913.

W. D. LANG, *Inv.*

Scale 1/2500 being 25·344 Inches to a Statute Mile or 208·33 Feet to One Inch.

Links 100 0 5 10 15 20 25 30 35 40 Chains (or ½ Mile)
Feet 100 0 500 1000 1500 2000 2500 2600 Feet.

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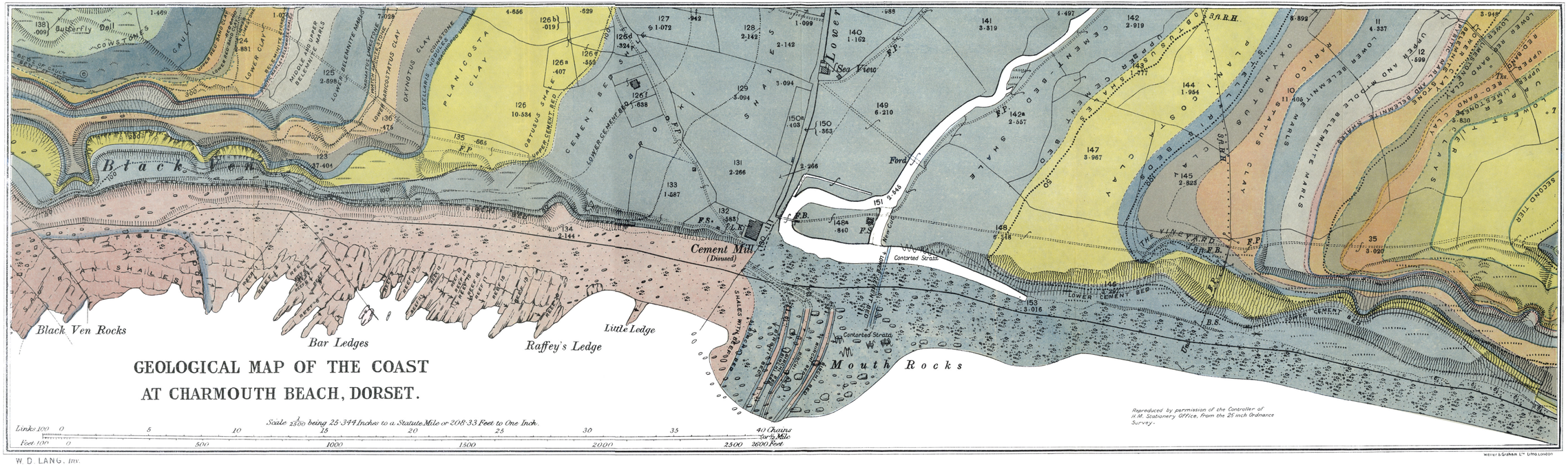

GEOLOGICAL MAP OF THE COAST AT CHARMOUTH BEACH, DORSET.

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VERTICAL SECTION OF THE LIAS FROM ITS BASE TO THE HIGHEST BEDS EXPOSED ON STONEBARROW; AND OF THE CRETACEOUS BEDS AND DRIFT OF THE COAST-SECTION BETWEEN WESTHAY WATER AND LYME REGIS.

THE COLOURED BEDS OF THE SECTION ARE CORRESPONDINGLY COLOURED ON THE MAPS. THE UNCOLOURED BEDS AT THE BASE DO NOT OCCUR ON THE MAPS, BUT ARE INSERTED TO CARRY THE SECTION DOWN TO THE BASE OF THE LIAS.

APPROXIMATE THICKNESS IN FEET				
12	COINSTONE			
8½	STELLARIS NODULES	ASTEROCERAS STELLARE		
1	LIMESTONE WITH BRACHIOPODS			
26	UPPER PLANICOSTA CLAY PLANICOSTA LIMESTONE LOWER PLANICOSTA CLAY	AMALTHEUS PLANICOSTA (AMBLYCERAS)		
8½	OBTUSUS SHALES	ASTEROCERAS OBTUSUM		
1	UPPER CEMENT BED OF SURVEY			
15	CEMENT BED SHALES			
1	LOWER CEMENT BED			
10½	UPPER BROOKI SHALES	ASTEROCERAS BROOKI		
½	INDURATED BAND IN BROOKI			
24	LOWER BROOKI SHALES			
1	BIRCHI BED	MICRODERCERAS BIRCHI (MICRASTER TURNERI)		
50 70 70	SHALES WITH BEEF	ARNIOCERAS ABUNDANT		
3½	TABLE LEDGE	ZONE OF PROMICROCERAS SEMICOSTATUM (RUGIFER)		
10	SAURIAN SHALES			
½	FISH BED			
3½	FISH BED SHALES			
1	GREY LEDGE			
1½	GREY LEDGE SHALES			
1½	GLASS BOTTLE			
1½	GLASS BOTTLE SHALES			
2	TOP QUICK LEDGE			
1	TOP QUICK SHALES			
2	VENTY BED.			
6	VENTY SHALES	ZONE OF CORONICERAS BUCKLANDI (OF SURVEY)		
¾	BEST BED " SHALES			
1½	SECOND BED			
1½	SECOND BED SHALES			
2	RATTLE			
2½	RATTLE SHALES			
1	SECOND QUICK LEDGE			
½	GUMPTION " SHALES			
3½	GUMPTION SHALES			
1½	THIRD QUICK LEDGE			
1	" " SHALES			
1	TOP TAPE			
1½	SECOND TAPE SHALES			
1½	TOP COPPER " SHALES			
1	MONGREL " SHALES			
½	SECOND MONGREL " SHALES			
1½	SPECKETTY " SHALES			
¾	THIRD TAPE OR UPPER WHITE BED			
1½	" " SHALES			
1	UPPER SKULLS			
1½	" " SHALES			
1½	IRON LEDGE			
2½	IRON LEDGE SHALES			
1½	UNDER COPPER			
1¾	UNDER COPPER SHALES			
1	" WHITE BED			
1	" " SHALES			
3½	LOWER SKULLS			
1½	LOWER SKULLS SHALES			
1	LOWER VENTY " SHALES			
½	SOFT BED " SHALES			
½	BRICK LEDGE			
5	SHALE WITH BANDS & NODULES OF LIMESTONE	ZONE OF SCHLOTHEIMIA ANGULATA (OF SURVEY)		
¾	GREY LIMESTONE			
2	SHALY MARL & LIMESTONE			
10	SIX LIMESTONES SEPARATED BY SHALY MARL			
1	GREY SHELLY LIMESTONE			
1½	SHALE			
3	SHALES WITH FIVE BEDS OF EVEN-BEDDED LIMESTONE			
3¼	SHALES WITH FIVE IRREGULAR BANDS OF LIMESTONE			
1½	COMPACT LIMESTONE WITH MARLY BASE			
1½	SHALE			
6	FIVE LIMESTONES SEPARATED BY SHALE	ZONE OF PSILOCERAS PLANORBIS (OF SURVEY)		
5	SHALE WITH EIGHT BANDS OF SHELLY LIMESTONE			
½	IRREGULAR BED OF LIMESTONE			
7	BROWN LAMINATED PAPER SHALES			
	WHITE LIAS			

APPROXIMATE THICKNESS IN FEET				
60 OUT OF 100	MARGARITATUS MARLS			
1	TOP-MOST TIER			
16	MIDDLE TIER			
2	LOWEST TIER	AMALTHEUS		
15 TO 30	UPPER CLAYS			
1	UPPER LIMESTONE	OXYNOTICERAS		
15 TO 30	UPPER RED-BAND CLAYS		GREEN AMMONITE BEDS	
1	RED BAND			
10 TO 20	LOWER RED-BAND CLAYS	LIPAROCERAS STRIATUM		
1	LOWER LIMESTONE			
7 TO 20	LOWER CLAYS	ARIETICERAS LATICOSTA		
1	BELEMNITE STONE			
3	PYRITIC MARLS	ARIETICERAS ELLIPTICUM		
3	BELEMNITE SHALES			
8	UPPER DARKER MARLS		UPPER BELEMNITE MARLS	
2	UPPER PALER MARLS			
1	UPPER DARK BAND	OBTUSUS		
8	UPPER PALE BAND			
3	MIDDLE DARK BAND		MIDDLE BELEMNITE MARLS	
4	MIDDLE PALE BAND			
2	LOWER DARK BAND			
5	LOWER PALE BAND			
36	LOWER DARKER MARLS		LOWER BELEMNITE MARLS	ZONE OF SCHLOENBACHIA ROSTRATA / ZONE OF HOPLITES INTERRUPTUS
4 TO 10	LOWER PALER MARLS	JAMESONI ARMATUS		
1	ARMATUS LIMESTONE			
2	UPPER RARICOSTATUS CLAYS			
1	WATCH AMMONITE STONE			
12	LOWER RARICOSTATUS CLAYS	ECHIOCERAS		
15	OXYNOTUS CLAYS	OXYNOTICERAS		

APPROXIMATE THICKNESS IN FEET		
10 TO 30	DRIFT CONSISTING OF TERTIARY AND CHALK DEBRIS ABOVE AND OF THE REMAINS OF CHERT BEDS (ZONE OF PECTEN ASPER) BELOW.	
60 TO 100	FOXMOULD	
1	COWSTONES. TOP LAYER	
9	SAND	
1	COWSTONES. MIDDLE LAYER	
9	SAND	
1	COWSTONES. LOWER LAYER	
4 TO 14	BEDS 4-10 OF GAULT	
7 TO 10	BED 3 OF GAULT	
7 TO 10	BED 2 OF GAULT	
5 TO 11	BED 1 OF GAULT	
3 TO 1	PEBBLE BED AT BASE OF GAULT	
40 OUT OF 100	MARGARITATUS MARLS	

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GEOLOGICAL MAP OF THE COAST OF CHARMOUTH, DORSET

EAST

STANTON

Little Coppice

Westhay Farm

Old Limekiln

Fairy Cottage

Pond

Black Rock

Dover Ledge

The Mumbles

Hawkfish Ledge

Scale $\frac{1}{2500}$ being 25·344 Inches to a Statute Mile or 208·33 Feet to One Inch.

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